



Fig. 1

85P1B3 SSH sequence and GenBank homology to OIP5

GATCAGAGGACACATGGGACTCTGCATCTAATTCTAAATTACAGTCAGAGACATTTCAGAGATAAGTATTAT
GAATTCAATAAGAATCTAAAGTAAGTTCTAAGGCAAATAGCTATAAAAGAGAAGAATCCTTAGTCATCTTC
TAAAAACAGCTTCACAAATAATTGGAAAATCAGCCTAAAGGTAAATAGAAACTGCATTTCCCCTCCATTCTTGAA
GCCAATTTTCAAGAAATGACTAAGCAGCACCTGTTGAAGACAGCAATAAGCCTGAACCTGACACTCAAG
CTTGGTACAGGATC

gb AF025441.1 AF025441	Homo sapiens Opa-interacting protein...	632	e-179
gb AF158642.1 AF158642	Homo sapiens metalloproteinase-disin...	42	0.12
gb AC005075.2 AC005075	Homo sapiens clone RG219E16, complet...	42	0.12
emb AL096773.6 HS1000E10	Human DNA sequence from clone 1000...	40	0.48

>gb|AF025441.1|AF025441 Homo sapiens Opa-interacting protein OIP5 mRNA,
partial cds
Length = 1197

Score = 632 bits (319), Expect = e-179
Identities = 319/319 (100%)
Strand = Plus / Minus

Query: 1 gatcagaggacacatggactctgcacatcttaattctaaattacagtcaaagacat 60
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 1013 gatcagaggacacatggactctgcacatcttaattctaaattacagtcaaagacat 954

Query: 61 cagagataagtattatgaattcaataagaatctaaagtaagttcttaaggcaaataagct 120
||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 953 cagagataagtattatgaattcaataagaatctaaagtaagttcttaaggcaaataagct 894

Query: 121 taaaagagaagaatccttagtctctcatcttctaaaaacagcttcacaaataattggaa 180
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Sbjct: 893 taaaagagaagaatccttagtctctcatcttctaaaaacagcttcacaaataattggaa 834

Query: 181 aatcagcctaaaggtaaatagaaactgcattttccattcttgaagccaatctttt 240
||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 833 aatcagcctaaaggtaaatagaaactgcattttccattcttgaagccaatctttt 774

Query: 241 caagaaatgactaaggcacctgttgtgaagacagcaataagcctgaacctgacact 300
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Sbjct: 773 caagaaatgactaaggcacctgttgtgaagacagcaataagcctgaacctgacact 714

Query: 301 caagcttggcacaggatc 319
||||||||||||||||
Sbjct: 713 caagcttggcacaggatc 695

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Fig. 2-A

Fig. 1-11 cDNA Sequence and ORF of 85P1B3/OIP5 clone A

	9	18	27	36	45	54
5'	GGC TGC GGG AAG ATG GCG GCT CAG CCG CTG CGG CAT CGC TCA CGT TGT GCA ACG					
	-----	M A A Q P L R H R S R C A T				
	63	72	81	90	99	108
CCG CCC CGG GGG GAC TTT TGT GGT GGC ACT GAG AGG GCG ATT GAC CAA GCT TCT						
P P R G D F C G T E R A I D Q A S						
117	126	135	144	153	162	
TTT ACG ACC TCC ATG GAG TGG GAT ACG CAG GTG GTG AAG GGG TCC TCG CCG CTC						
F T T S M E W D T Q V V K G S S P L						
171	180	189	198	207	216	
GGC CCC GCA GGG CTG GGG GCT GAG GAG CCA GCC GCC GGC CCG CAG CTG CCG TCT						
G P A G L G A E E P A A G P Q L P S						
225	234	243	252	261	270	
TGG CTG CAG CCT GAG AGG TGC GCT GTG TTC CAG TGC GCA CAG TGT CAC GCA GTG						
W L Q P E R C A V F Q C A Q C C H A V						
279	288	297	306	315	324	
CTC GCC GAC TCG GTG CAC CTC GCC TGG GAC CTG TCG CGG TCC CTC GGG GCC GTG						
L A D S V H L A W D L S R S L G A V						
333	342	351	360	369	378	
GTC TTC TCC AGA GTT ACA AAT AAC GTC GTT TTG GAA GCG CCC TTC CTA GTT GGC						
V F S R V T N N V V L E A P F L V G						
387	396	405	414	423	432	
ATT GAA GGT TCA CTC AAA GGC AGT ACT TAC AAC CTT TTA TTC TGT GGT TCT TGT						
I E G S L K G S T Y N L L F C G S C						
441	450	459	468	477	486	
GGG ATT CCC GTT GGT TTC CAT CTG TAT TCT ACC CAT GCT GCC CTG GCT GCC TTG						
G I P V G F H L Y S T H A A L A A L						
495	504	513	522	531	540	
AGA GGT CAC TTC TGC CTT TCC AGT GAC AAA ATG GTG TGC TAT CTC TTA AAA ACA						
R G H F C L S S D K M V C Y L L K T						
549	558	567	576	585	594	
AAA GCC ATA GTA AAT GCA TCA GAG ATG GAT ATT CAA AAT GTT CCT CTA TCA GAA						
K A I V N A S E M D I Q N V P L S E						
603	612	621	630	639	648	
AAG ATT GCA GAG CTG AAA GAG AAG ATA GTG CTA ACG CAC AAT CGC TTA AAA TCA						
K I A E L K E K I V L T H N R L K S						
657	666	675	684	693	702	
CTA ATG AAG ATT CTG AGT GAA GTG ACT CCT GAC CAG TCC AAG CCA GAA AAC TGA						
L M K I L S E V T P D Q S K P E N *						
711	720	729	738	747	756	

Fig. 2-B

Fig. 3**85P1B3/OIP5 protein sequence.**

1 MAAQPLRHRS RCATPPRGDF CGGTERAIDQ ASFTTSMEDW TQVVKGSSPL GPAGLGAEPP
61 AAGPQLPSWL QPERCAVFQC AQCHAVLADS VHLAWDLRSR LGAVVFSRVT NNVVLEAPFL
121 VGIEGSLKGS TYNLLFCGSC GIPVGFHLYS THAALAALRG HFCLSSDKMV CYLLKTKAIV
181 NASEMDIQNV PLSEKIAELK EKIVLTHNRL KSLMKILSEV TPDQSKPEN*

Fig. 4

Alignment of 85P1B3 with OIP5.

>gi|2815610|gb|AAC39561.1| (AF025441) Opa-interacting protein OIP5 [Homo sapiens]

Length = 231

Score = 462 bits (1189), Expect = e-130

Identities = 229/229 (100%), Positives = 229/229 (100%)

85P1B3: 1	MAAQPLRHSRCATPPRGDFCGGTERAIDQASFTTSM	MEWDTQVVKGSSPLGPAGLGAEEP	60	
	MAAQPLRHSRCATPPRGDFCGGTERAIDQASFTTSM	MEWDTQVVKGSSPLGPAGLGAEEP		
OIP5: 3	MAAQPLRHSRCATPPRGDFCGGTERAIDQASFTTSM	MEWDTQVVKGSSPLGPAGLGAEEP	62	
85P1B3: 61	AAGPQLPSWLQPERCAVFQCAQCHA	VLA	DLSRSLGAVVFSRVTNNVVLEAPFL	120
	AAGPQLPSWLQPERCAVFQCAQCHA	VLA	DLSRSLGAVVFSRVTNNVVLEAPFL	
OIP5: 63	AAGPQLPSWLQPERCAVFQCAQCHA	VLA	DLSRSLGAVVFSRVTNNVVLEAPFL	122
85P1B3: 121	VGIEGSLKGSTYNLLFCGSCGIPVGFHLYSTH	AA	LAALRGHFCLSSDKMVCYLLKTKAIV	180
	VGIEGSLKGSTYNLLFCGSCGIPVGFHLYSTH	AA	LAALRGHFCLSSDKMVCYLLKTKAIV	
OIP5: 123	VGIEGSLKGSTYNLLFCGSCGIPVGFHLYSTH	AA	LAALRGHFCLSSDKMVCYLLKTKAIV	182
85P1B3: 181	NASEMDIQNVPLSEKIAELKEKIVLTHNRLKSLM	KIL	SEVTPDOSKPEN	229
	NASEMDIQNVPLSEKIAELKEKIVLTHNRLKSLM	KIL	SEVTPDOSKPEN	
OIP5: 183	NASEMDIQNVPLSEKIAELKEKIVLTHNRLKSLM	KIL	SEVTPDOSKPEN	231

Fig. 5: 85P1B3 Hydrophilicity Profile

(Hopp T.P., Woods K.R., 1981. Proc. Natl. Acad. Sci. U.S.A. 78:3824-3828)

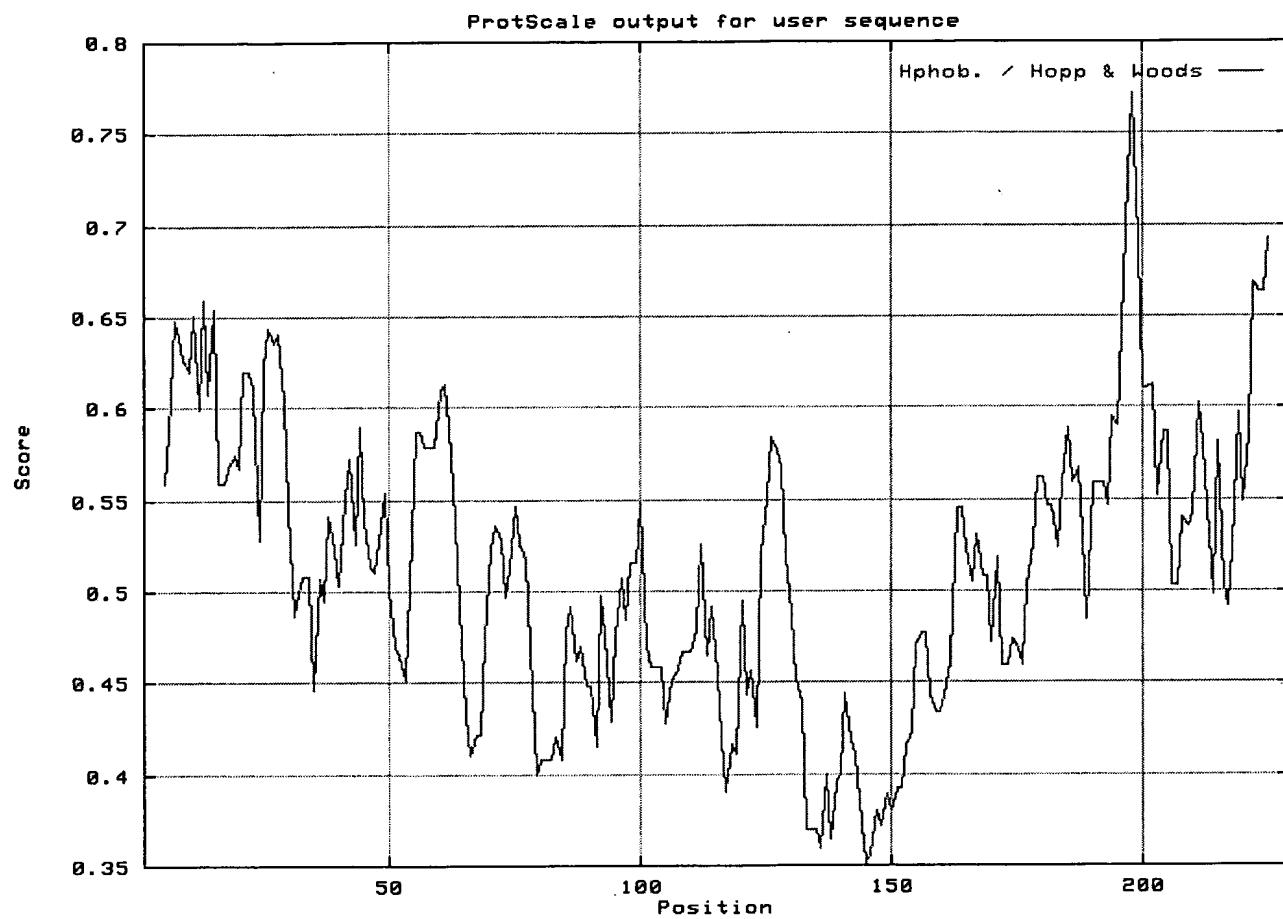


Fig. 6: 85P1B3 Hydropathicity Profile

(Kyte J., Doolittle R.F., 1982. J. Mol. Biol. 157:105-132)

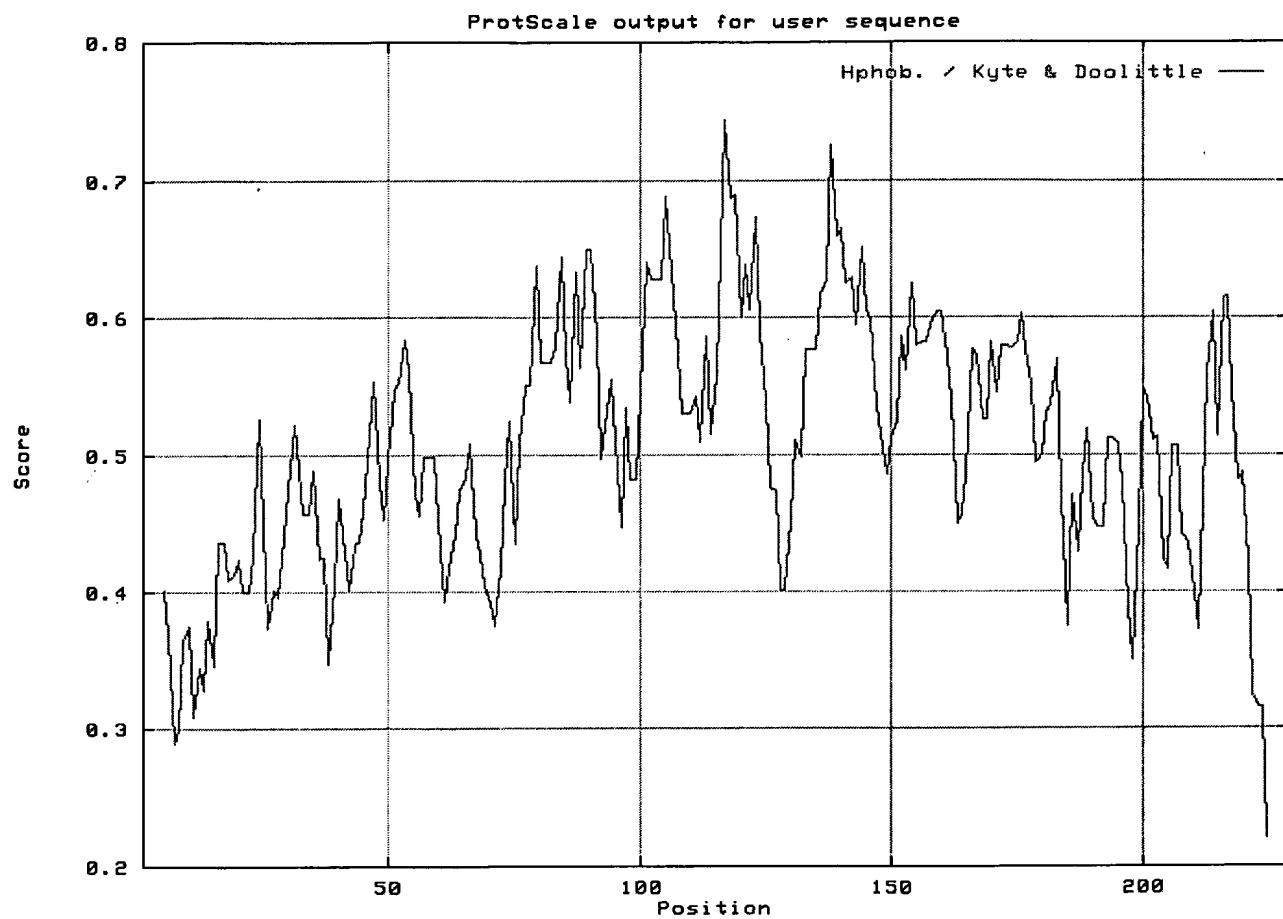


Fig. 7: 85P1B3 % Accessible Residues Profile
(Janin J., 1979. Nature 277:491-492)

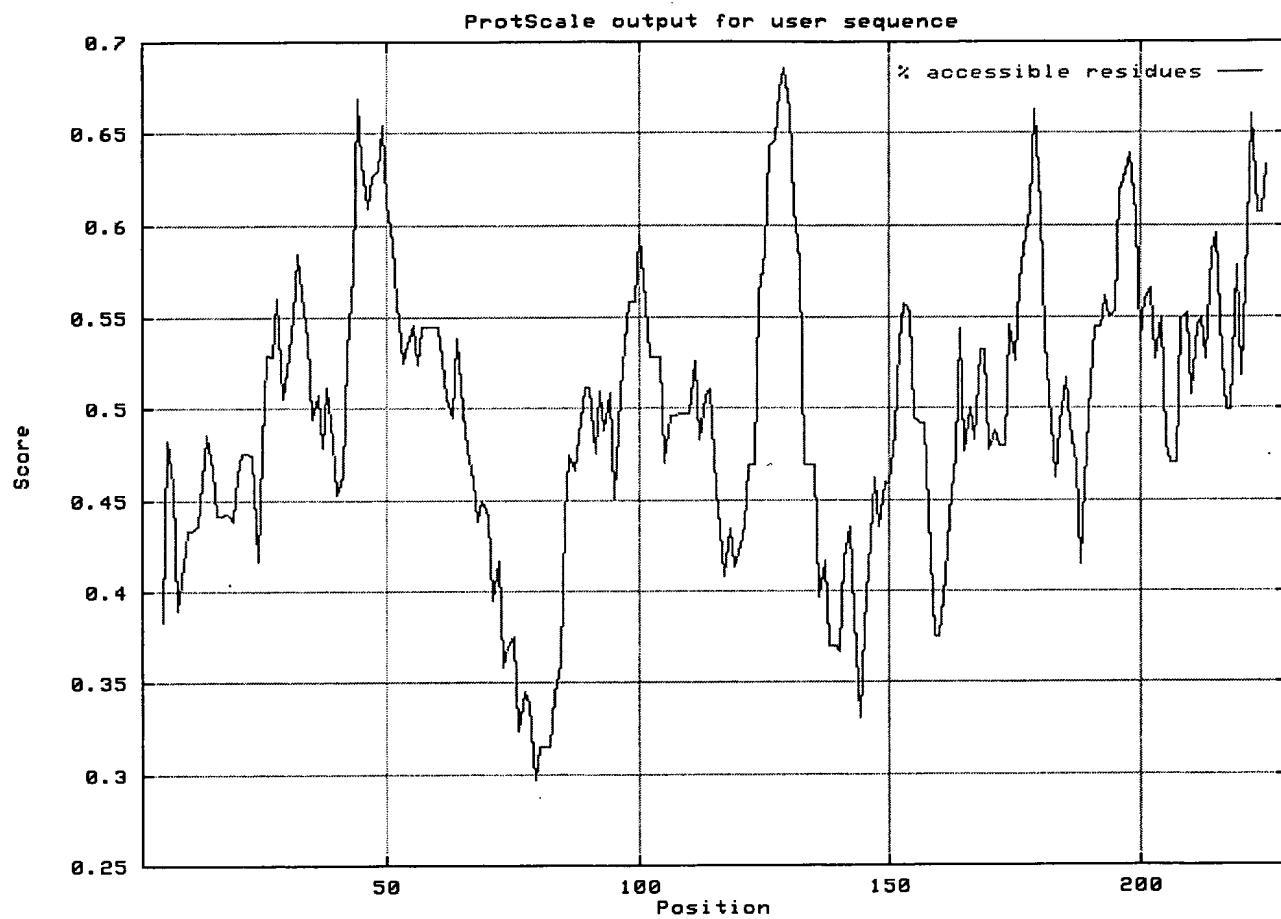


Fig. 8: 85P1B3 Average Flexibility Profile

(Bhaskaran R., Ponnuswamy P.K., 1988. Int. J. Pept. Protein Res. 32:242-255)

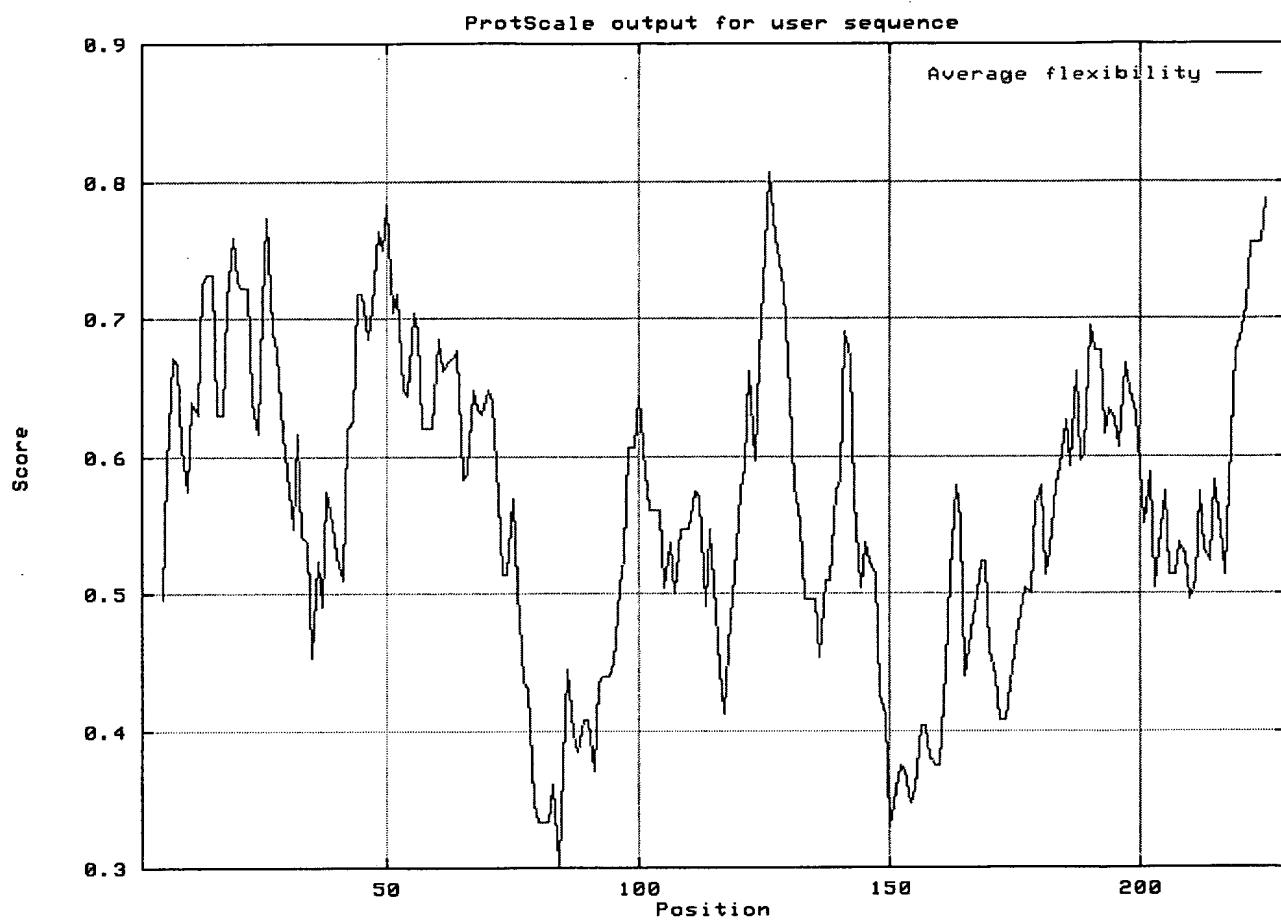
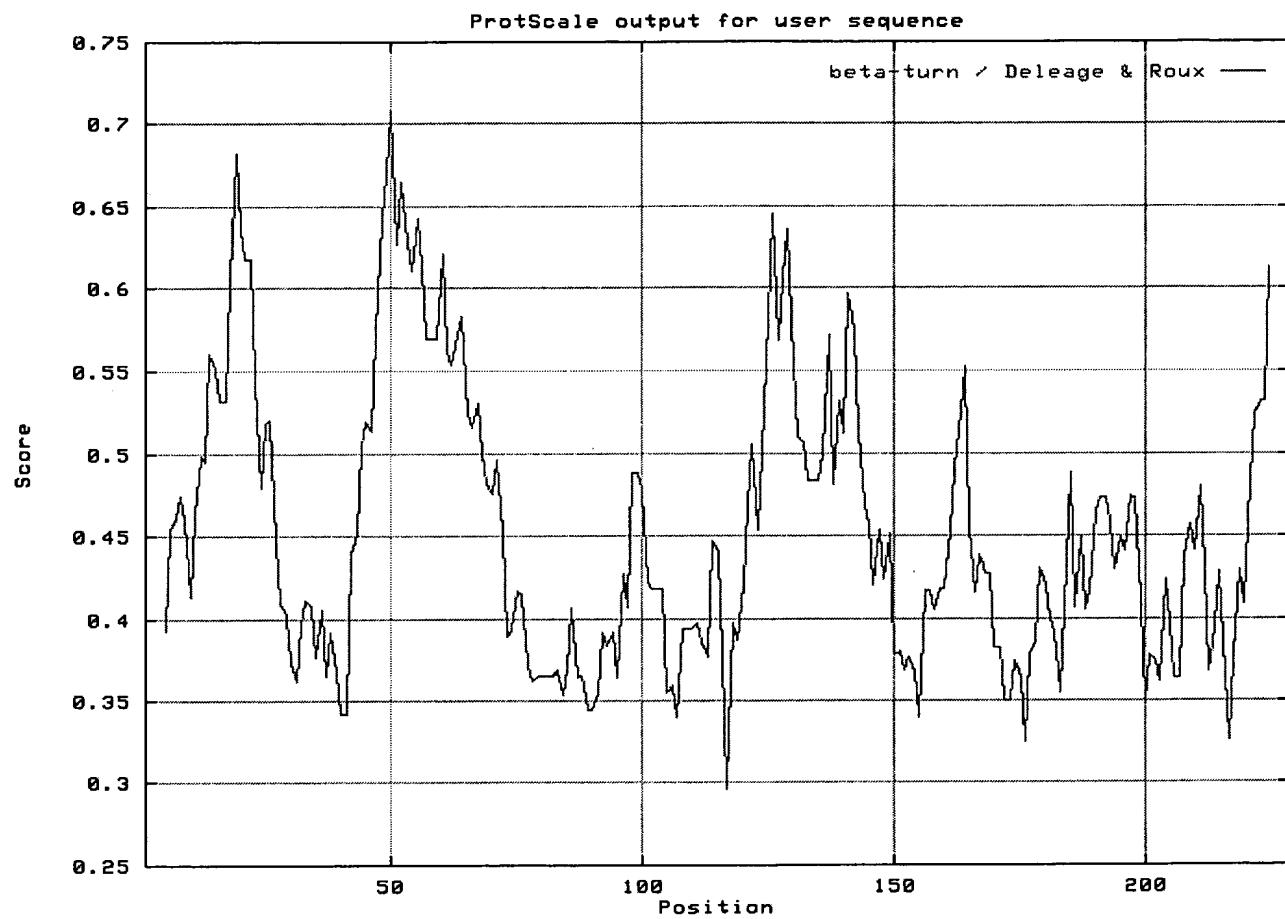


Fig. 9: 85P1B3 Beta-turn Profile

(Deleage, G., Roux B. 1987. Protein Engineering 1:289-294)



26X

30X

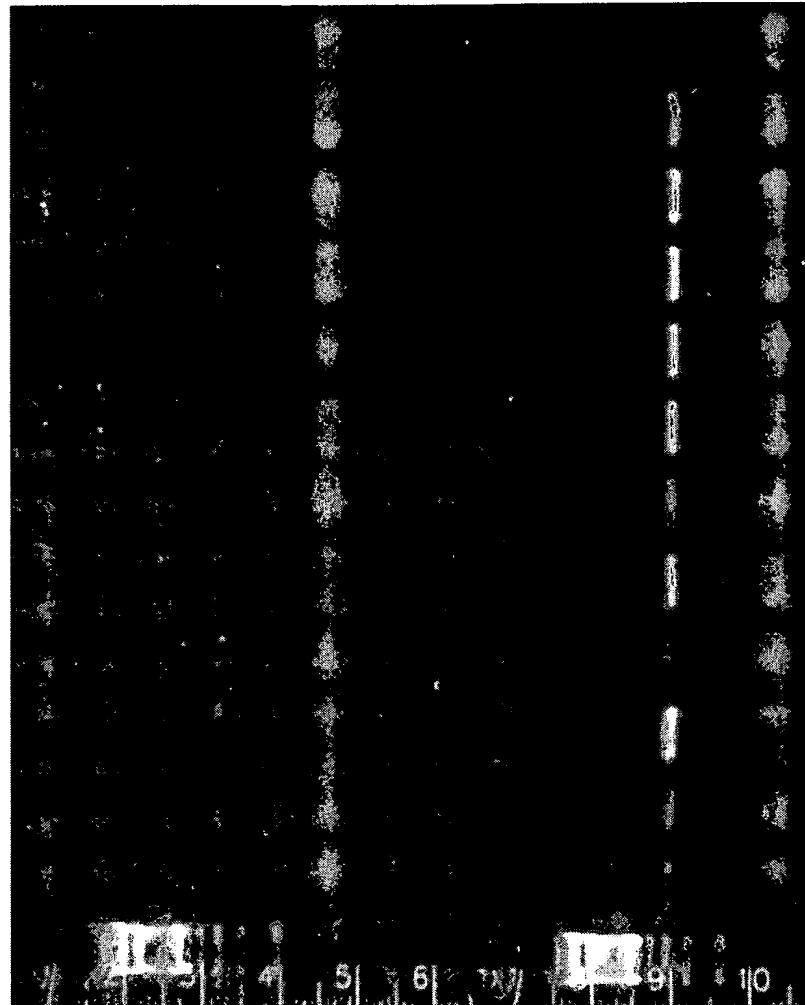


Fig. 10: RT-PCR Analysis of 85P1B3 Expression

- 1) Vital Pool 1
- 2) Vital Pool 2
- 3) Xenograft Pool
- 4) Prostate Cancer Pool
- 5) Bladder Cancer Pool
- 6) Kidney Cancer Pool
- 7) Colon Cancer Pool
- 8) Lung Cancer Pool
- 9) Ovary Cancer Pool
- 10) Breast Cancer Pool
- 11) Metastasis Pool
- 12) H2O

Fig. 11: Expression of 85P1B3 in Normal Human Tissues

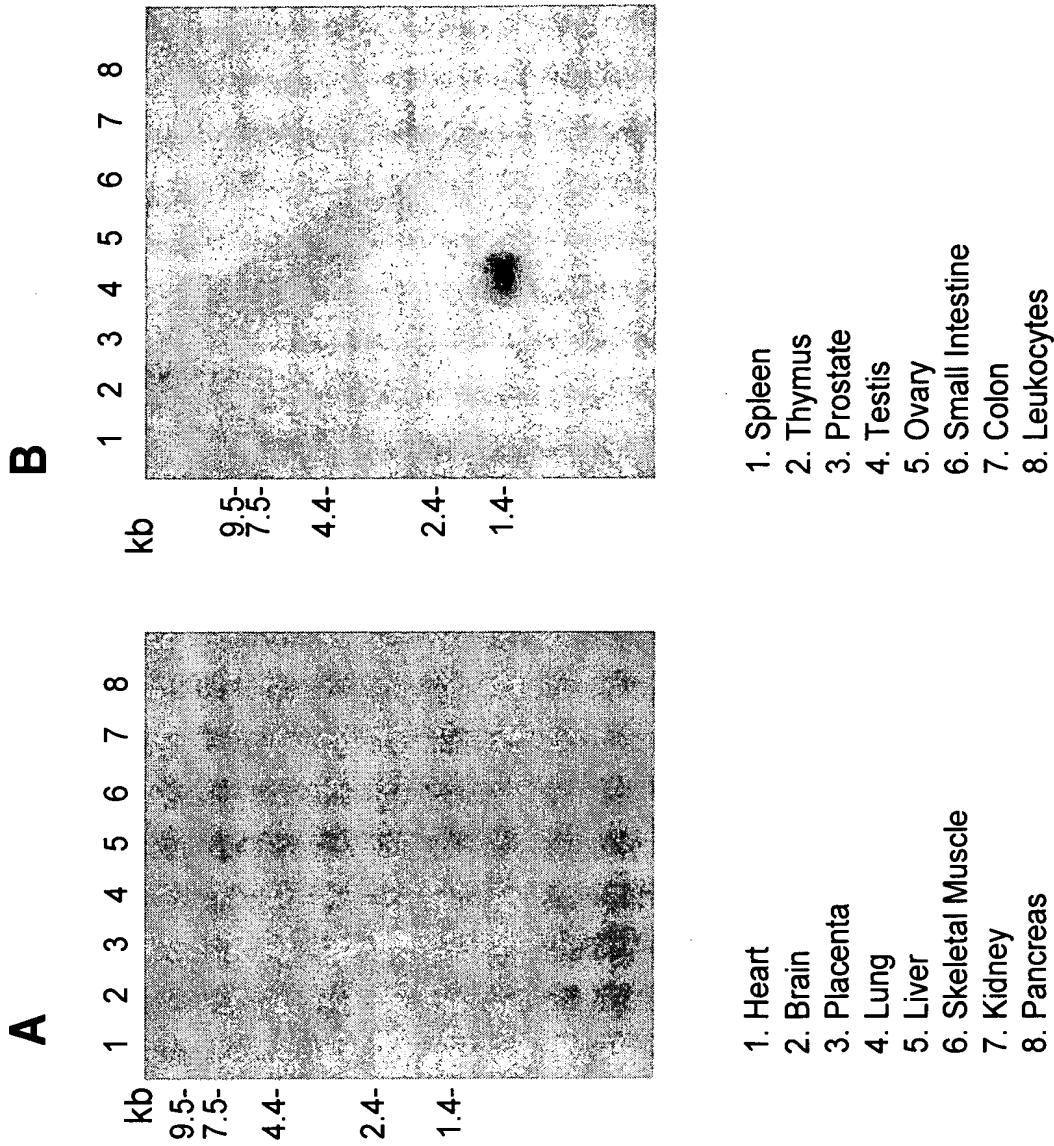


Fig. 12: Expression of 85P1B3 in Human Cancer Cell lines

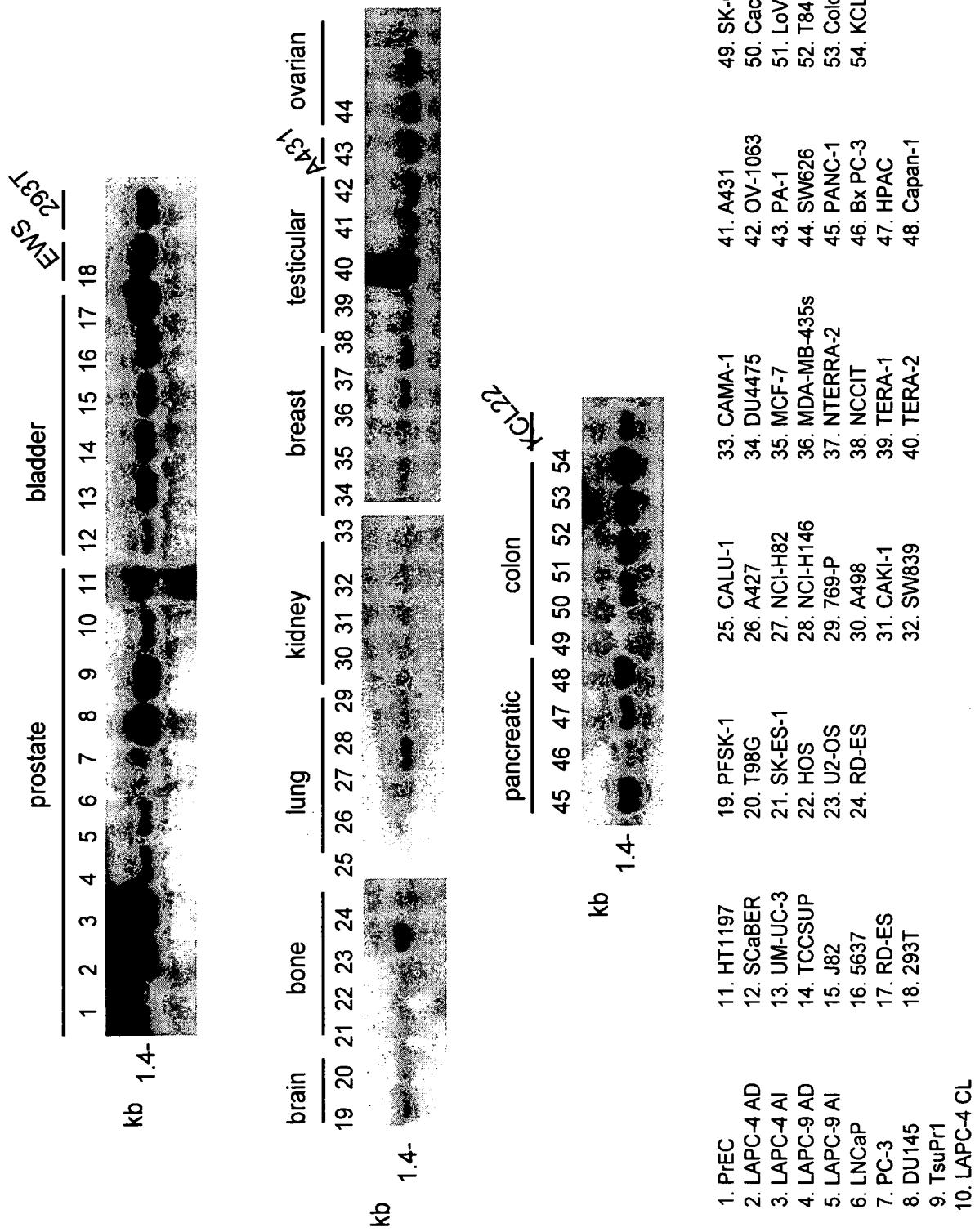


Fig. 13: Expression of 85P1B3 in Patient Cancer Specimens and Cancer Cell Lines

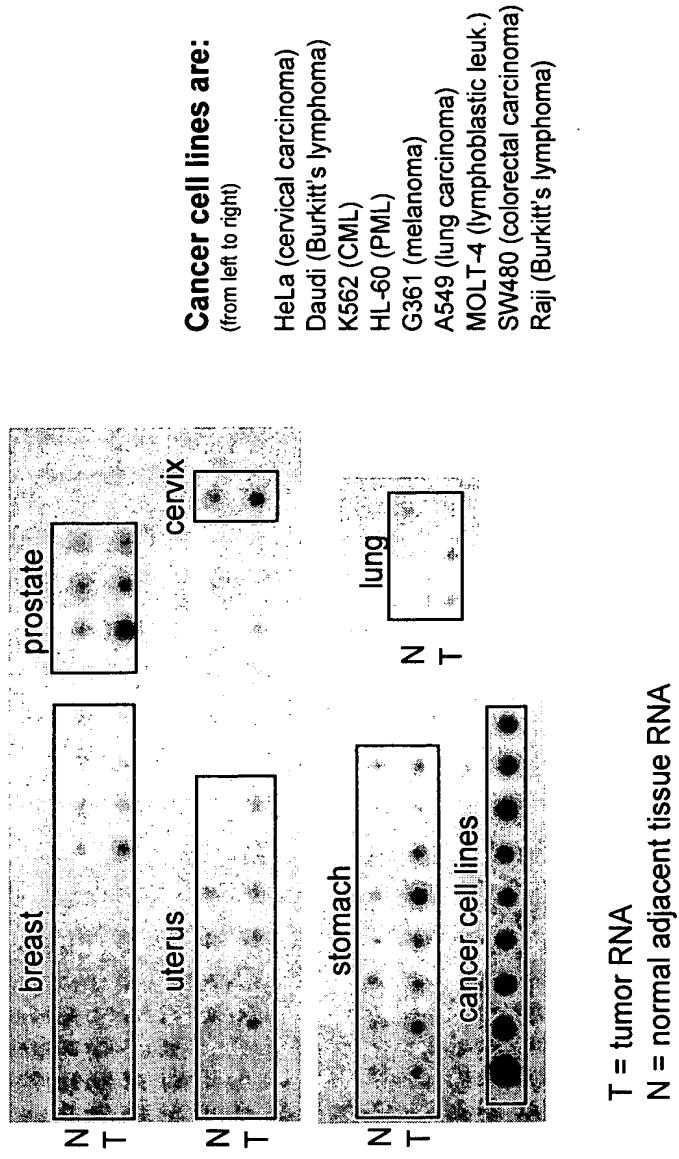


Fig. 14: Expression of 85P1B3 in Colon Cancer Patient Specimens

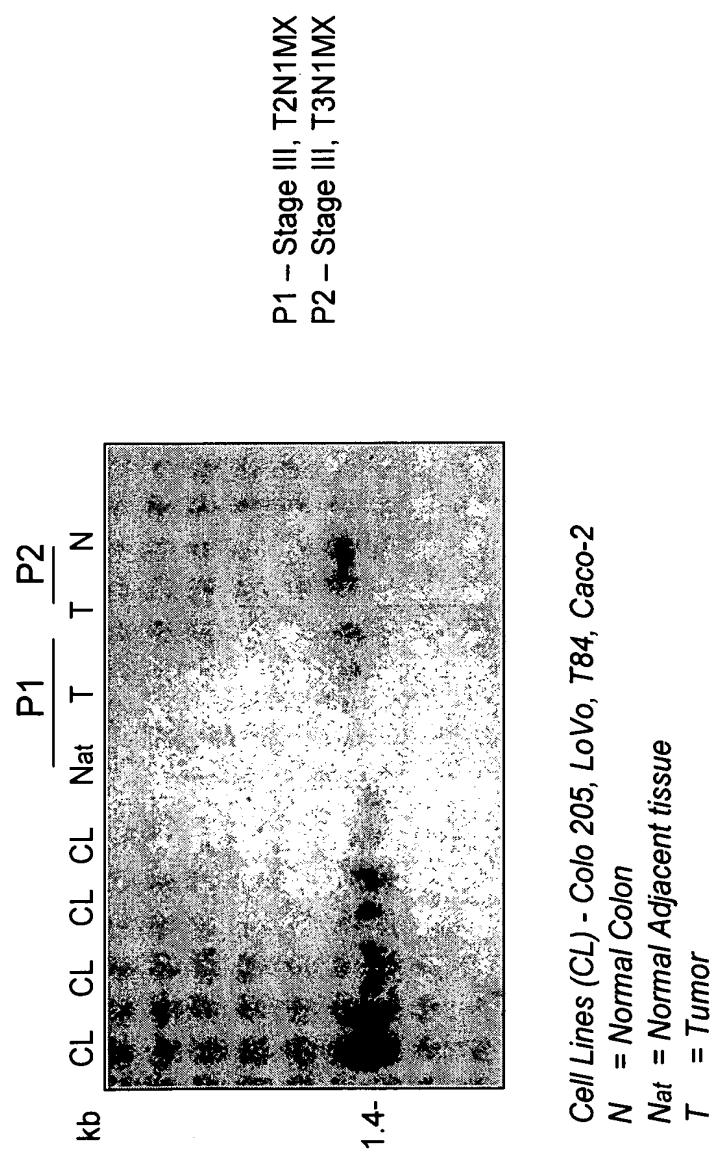


Fig. 15: Expression of 85P1B3 in Bladder Cancer Patient Specimens

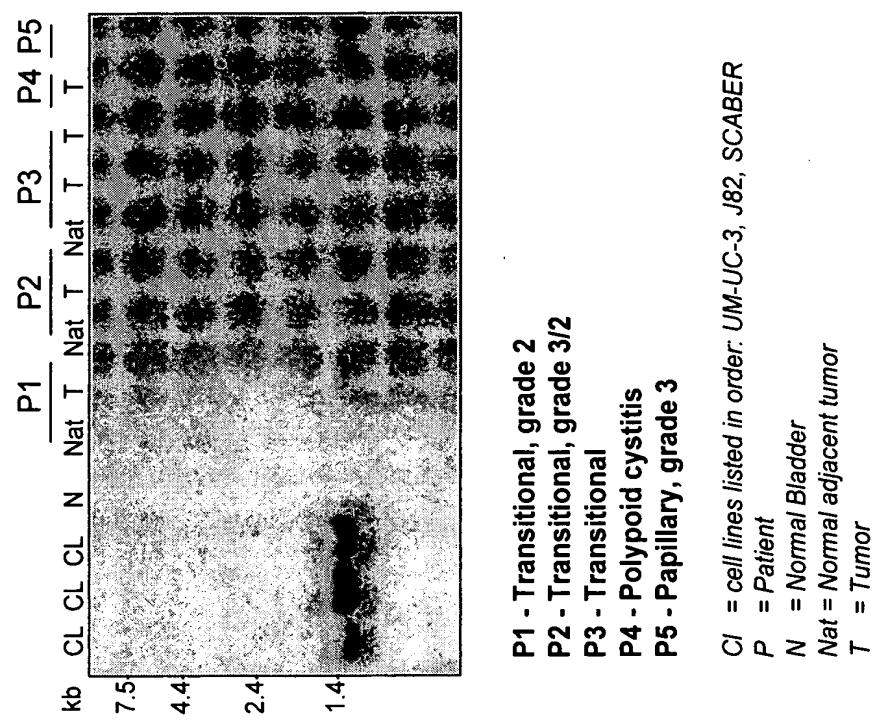


Fig. 16: Expression of 85P1B3 in Lung Cancer Patient Specimens

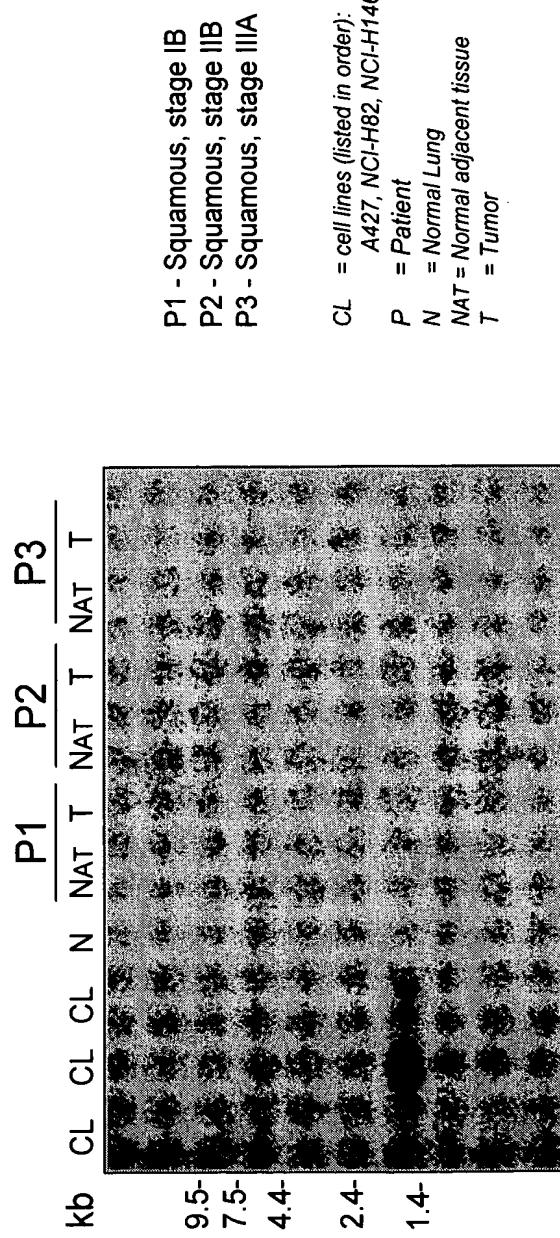
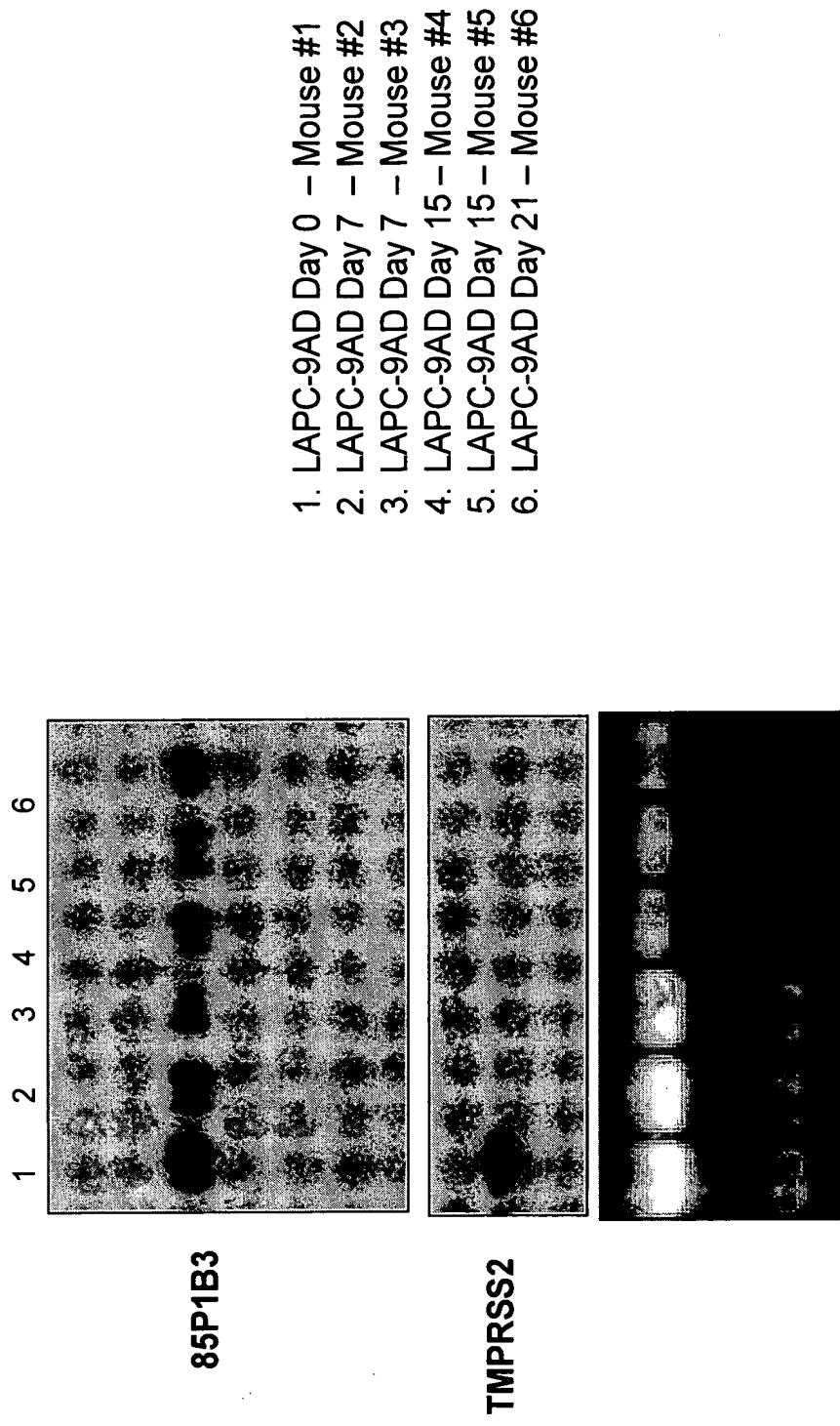


Fig. 17: Expression of 85P1B3 in Prostate Cancer Xenografts Following Castration



**Fig. 18: Expression of 85P1B3 in PC3 Cells Following
Retroviral-Mediated Gene Delivery**

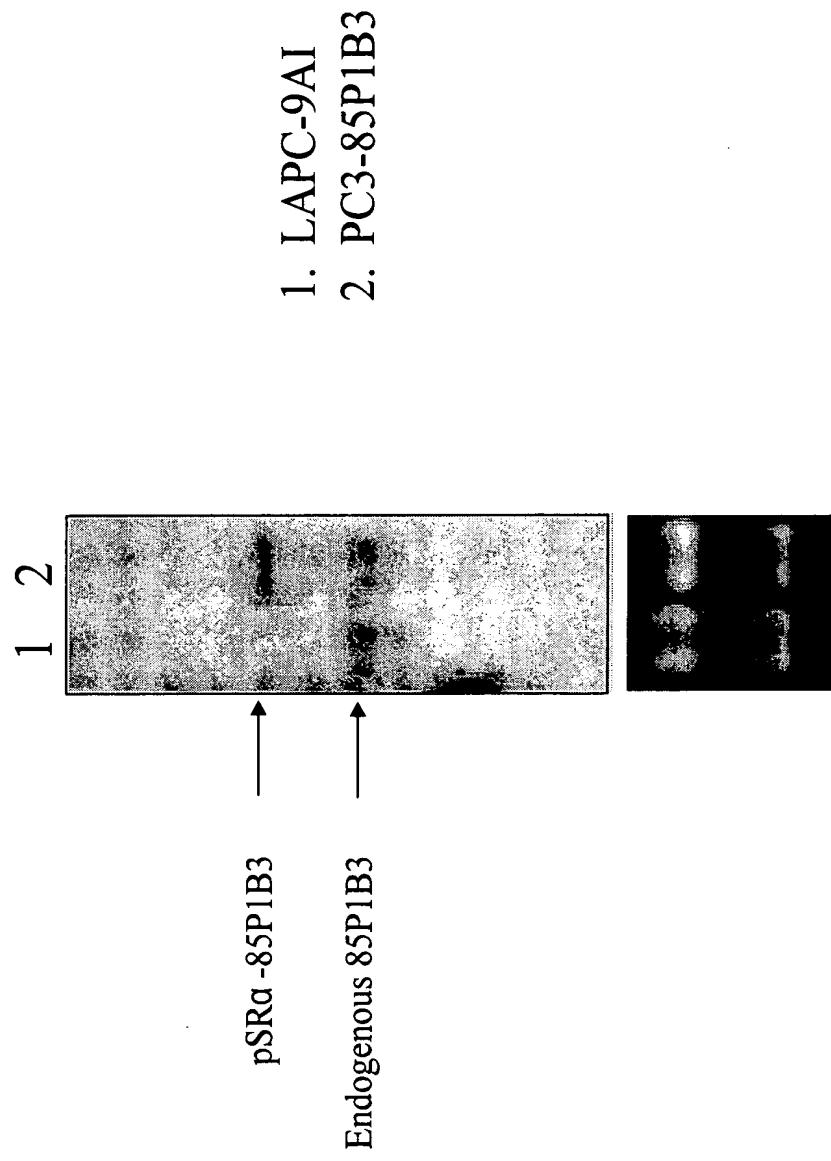


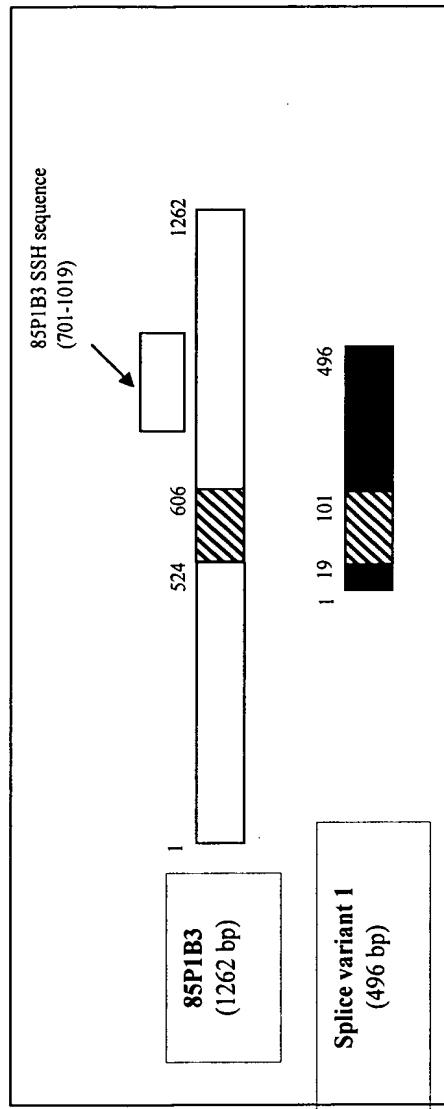
Fig. 19

Fig. 20

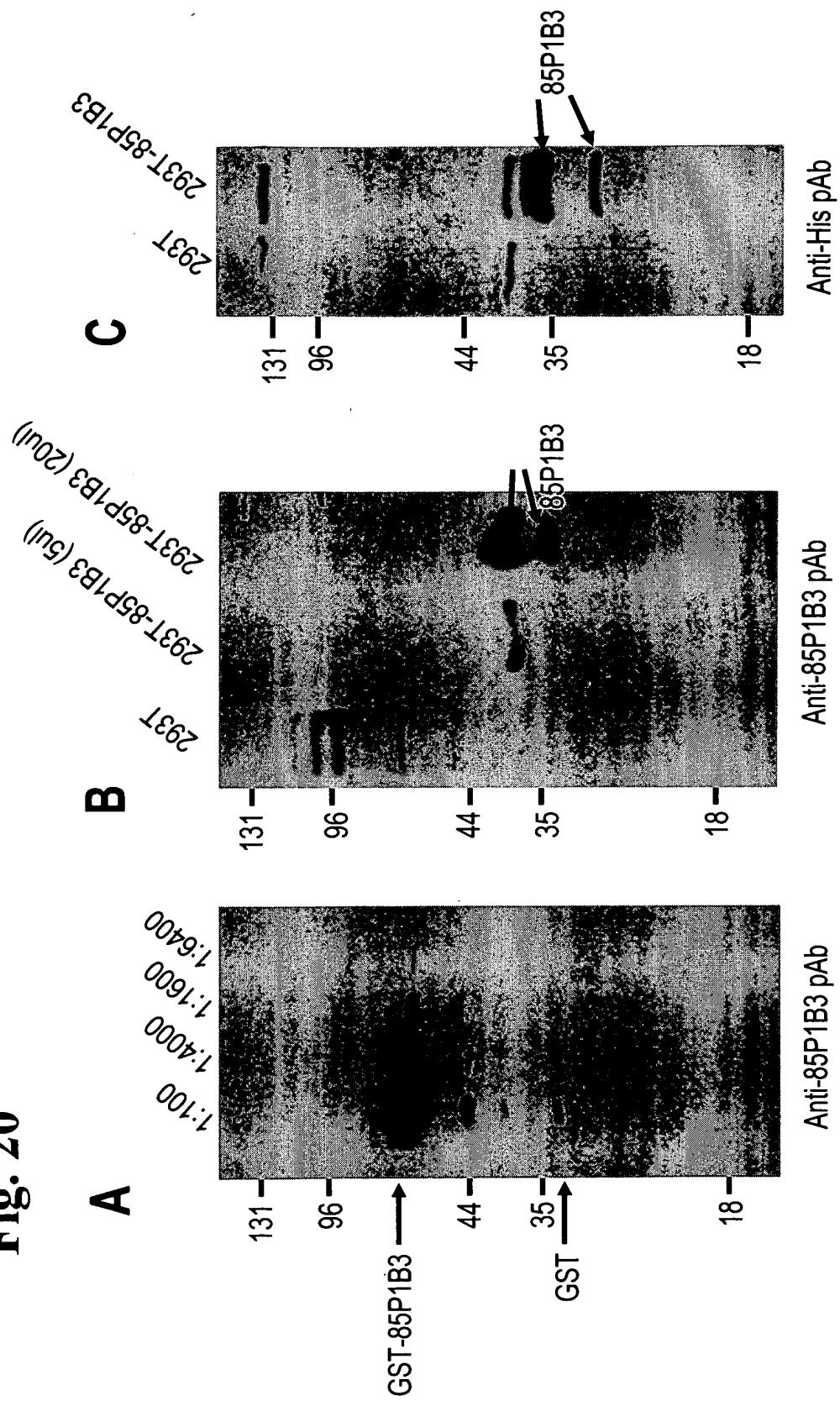
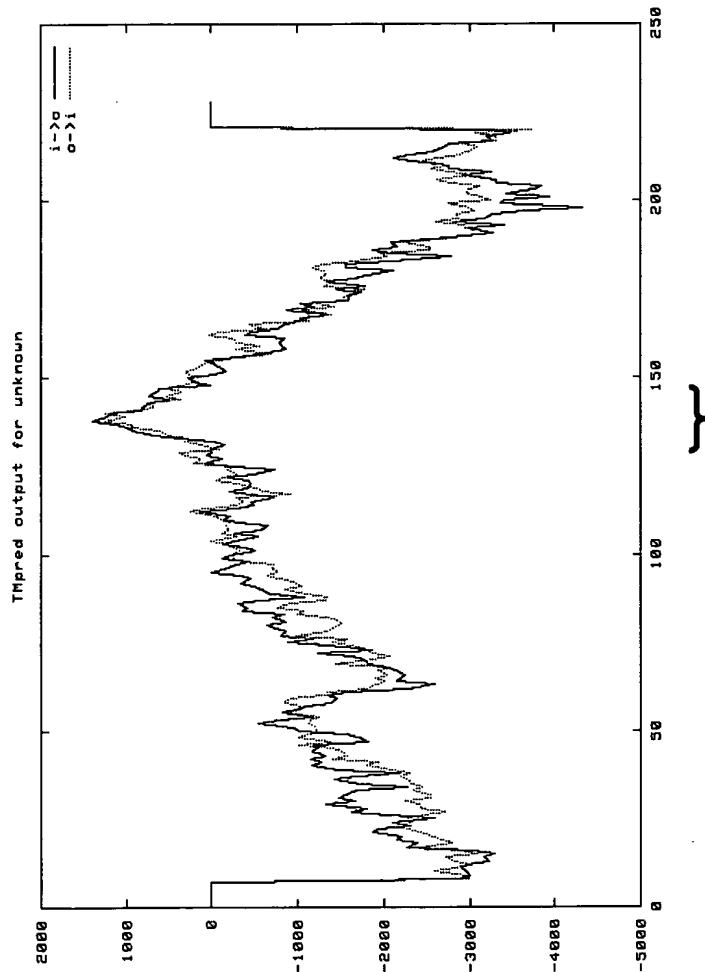
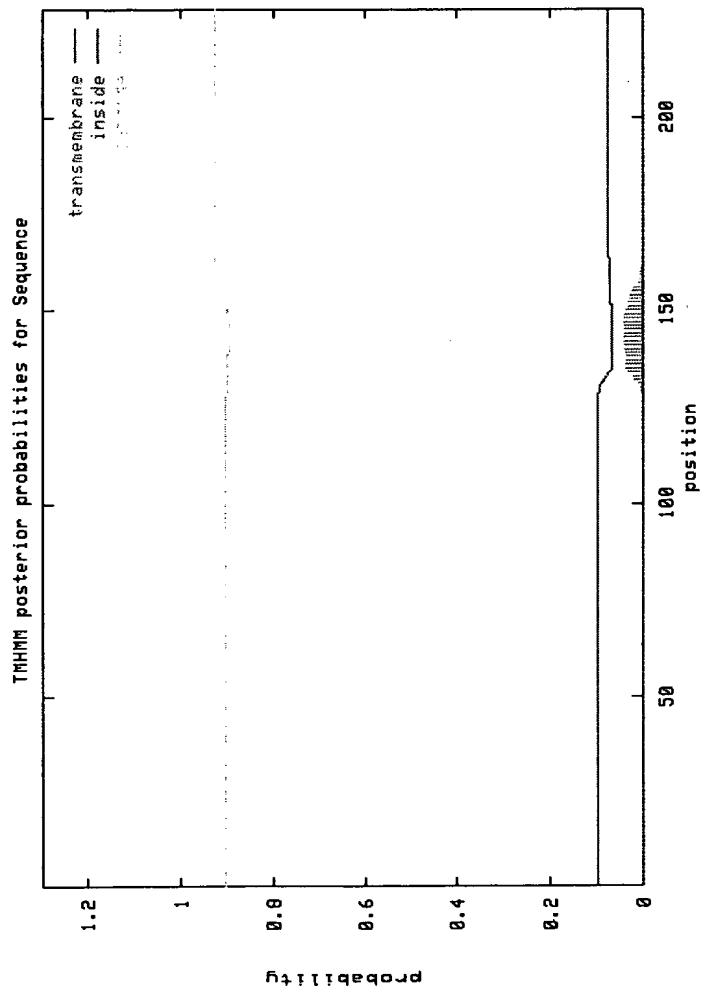


Fig. 21A

Fig. 21B

1 transmembrane from amino acids 129-149

Fig. 21C



No transmembrane domains, soluble protein

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